Total No. of Questions: 8]
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Roll No

ME-7002 (CBGS) B.E. VII Semester

Examination, November 2019

Choice Based Grading System (CBGS) Automobile Engineering

Time: Three Hours

Maximum Marks: 70



- Note: i) Attempt any five questions.
 - ii) All questions carry equal marks.
- a) Write in detail classification of automobiles.
 b) Differentiate between unitized chassis and framed chassis.
- a) Draw a ladder type of frame and explain various parts of frame.
 - b) What is meant by front wheel drive and rear wheel drive?
 Explain with examples.



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- b) How will you achieve power steering in a vehicle? Explain with neat sketch.
- 4. a) Derive the condition of correct steering angle.
 - b) Explain the concept of under steer and over steer. 7

5.	a)	Explain the working of a single plate friction clutch. 7	
	b)	Draw and explain the working of torque converter. 7	
6.	a)	Explain the working of telescopic damper (shock absorber)	
		with neat sketch.	
	b)	Draw and explain the working of a hydraulic brake. What	
	4	are its advantages over mechanical brakes?	
7.	a)	Write notes on starting mechanism of a vehicle.	
	b)	How is bleeding of hydraulic brake takes place? What is	
		its purpose?	
estr.			
8.	a)	Compare Bharat and Euro emission norms. 7	
	b)	What is the advantage of a catalytic converters? How does	
	17th	it help to reduce pollution?	

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